**Infusing Interactive Whiteboards   
and other Visualization Tools   
in the Music Classroom**  
Wendy Bloom  
[Wendy.Bloom@fwcs.k12.in.us](mailto:Wendy.Bloom@fwcs.k12.in.us)  
   
Blog Site: **INFUSED MUS** [](http://bloomsinger.wordpress.com)

<http://bloomsinger.wordpress.com>  
  
Wiki: **MUSINGS WIKI** [Musings Wiki Logo.jpg](http://musingswiki.wikispaces.com)

<http://musingswiki.wikispaces.com>

[Visualization](http://en.wikipedia.org/wiki/Visualization) . . .

From [*Wikipedia*](http://www.wikipedia.org):

*The adage* [*“A picture is worth a thousand words”*](http://en.wikipedia.org/wiki/A_picture_is_worth_a_thousand_words) *refers to the idea that a complex idea can be conveyed with just a single still image. It also aptly characterizes one of the main goals of visualization, namely making it possible to absorb large amounts of data quickly.*

<http://en.wikipedia.org/wiki/A_picture_is_worth_a_thousand_words>

So, I was participating in a session for music teachers a few summers ago where a

consummate Orff instructor was demonstrating how she uses visuals to help

students process Orff instruction . . . and we were imitating her body percussion

models to learn a lengthy and varied playing pattern . . . So, we were standing there in the circle, the room was sort of dark, I was a little nervous and self-conscious, there was a lot of up and down motion in the pattern, and I was encountering static

between the visual-brain-body synapse connections, which was really slowing me

down . . . Then, the instructor displayed a digital visual iconic representation (using

PowerPoint) of the movement and pitch patterns and . . . snap to grid!

As long as I focused on the visual, my eyes, mind, and body were perfectly aligned and coordinating to accurately perform the pattern . . . with little effort at all! The

visualization scaffold held with the transfer to playing the pattern using Orff

instruments, as the embedded visualization helped me to match to the correct pitch

bars on the instrument to play the part. As a visual/auditory combination learner with some sort of undetermined cognitive interruption, I needed that visual scaffold to help me succeed.

I have lived with this learning frustration . . . think about the number of students in

our music classrooms who are coping with some sort of subtle learning obstacle or

who continually struggle with a more severe diagnosed learning disability. Even

students who are pretty much brain ready for learning have a favored learning

style . . . and [65%](http://www.phschool.com/eteach/social_studies/2003_05/essay.html) of the students in the learning population are [visual learners](http://en.wikipedia.org/wiki/Visual_learning) or

visual/auditory combination learners.

<http://www.phschool.com/eteach/social_studies/2003_05/essay.html>

<http://en.wikipedia.org/wiki/Visual_learning>

<http://www.phschool.com/eteach/social_studies/2003_05/essay.html>

And then, there's the whole concept of [visual literacy](http://en.wikipedia.org/wiki/Visual_literacy%20http://) in general, which all savvy

educators (including music educators) should be constantly addressing. Here are

several good web sites related to [visual literacy](http://en.wikipedia.org/wiki/Visual_literacy):

* [Visual Literacy at Wikipedia](http://en.wikipedia.org/wiki/Visual_literacy)

<http://en.wikipedia.org/wiki/Visual_literacy>

* [Visual Literacy: An E-Learning Tutorial on Visualization for Communication, Engineering and Business](http://www.visual-literacy.org)

<http://www.visual-literacy.org>

* [The International Visual Literacy Association](http://www.ivla.org)

<http://www.ivla.org_>

* [A Periodic Table of Visualization Methods](http://www.visual-literacy.org/periodic_table/periodic_table.html)

<http://www.visual-literacy.org/periodic_table/periodic_table.html>

* [Digital Glyphs: Imaging Ideas in a Visual World](http://eduscapes.com/sessions/digital/digital1.htm)

<http://eduscapes.com/sessions/digital/digital1.htm>

Every good music educator utilizes visuals and uncover visuals to help students

process instruction, but digital visuals are so vivid, clean, and focus friendly (not to

mention how animations hold student interest) that they are even more

accomodating than a human model (at least for me). The majority of my students

are visual/auditory combination learners. So, in this era of brain-based instruction I

now constantly use digital visuals projected on my [*SMART Board*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)to facilitate music

instruction.

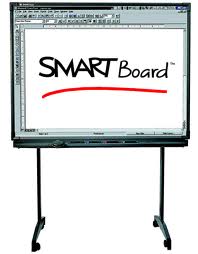
But there’s even more to it now than the just concept of digital visualization . . . We now instruct in an [“information abundant”](http://davidwarlick.com/wordpress)[media literate, connected and interdisciplinary, collaborative, critically thinking, creativity, innovation, flexibility, and productivity driven, and accountable](http://www.p21.org) 21st Century Learning environment. Students (and parents) expect ALL educators (including music educators) to accommodate their unique approaches to learning and they expect us to facilitate learning utilizing “best practice” learning strategies and methodologies along with state of the art learning tools. By infusing the learning landscape with purposefully selected technology tools, music educators can create compelling and collaborative 21st Century Learning opportunities in music by merging a mix of digital interactive tools including interactive whiteboards (IWB’s), music notation, sequencing, and computer assisted instruction (CAI) software, keyboard controllers, digital audio (DAW) hardware and software, music related apps for iPhones/iPods/iPads, flip cams and digital cameras, gaming devices, adaptive technologies, Web 2.0 and cloud apps, learning management systems (LMS’s), and blogs and wikis.

<http://davidwarlick.com/wiki/pmwiki.php?n=Main.CrackingTheNativeInformationExperience>

<http://www.p21.org>

So, with all of this . . . by far . . . the single most powerful, engaging, effective, and facilitating tool in my music learning environment is the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards). The Haley Comets and I utilize it all day, every day as we pursue our music lessons, projects, and activities.

So, what is a [*SMART Board*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)? It’s a type of [interactive whiteboard (IWB)](http://en.wikipedia.org/wiki/Interactive_whiteboard)*.*



Definition at [*Wikipedia*](http://www.wikipedia.org):

<http://en.wikipedia.org/wiki/Interactive_whiteboard>

*An* [*interactive whiteboard (IWB)*](http://en.wikipedia.org/wiki/Interactive_whiteboard)*, is a large interactive display that connects to a computer and projector. A projector projects the computer’s desktop onto the board’s surface where users*

*control the computer using a pen, finger or other*

*device. Theboard is typically mounted to a wall or floor stand.*

And . . . utilization of the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)is driven by a set of tools included in software called, [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)collaborative learning software.<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards>

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards>

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software>

Note: Recently, [*SMARTtech*](http://smarttech.com/us/Solutions/Education+Solutions) launched [*SMART Notebook Express*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Express+web+application), a free web-based

version of  [*SMART Notebook*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+collaborative+learning+software)software with which you can open, edit, and share

[*SMARTNotebook*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+collaborative+learning+software)lessons.

<http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Express+web+application>

[http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Express+web+application)

[+Notebook+Express+web+application](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Express+web+application)

Here is an information video about [*SMART Notebook Express*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Express+web+application):

<http://www.youtube.com/watch?v=-_MtY0y-kik&feature=related>

[*SMARTtech*](http://smarttech.com/us/Solutions/Education+Solutions) also makes other versions of [*SMART Notebook*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+collaborative+learning+software)software *like*

[*SMART Notebook SE*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+SE+collaborative+learning+software)(meant for student use with [*SMART Sync*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Sync)classroom management software in a lab) and [*SMART Notebook Math Tools*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Math+Tools+software).You can access thousands of teacher created [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) files at the [*SMART Exchange*](http://exchange.smarttech.com/)web site.

[http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+SE+collaborative+learning+software)

[+Notebook+SE+collaborative+learning+software](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+SE+collaborative+learning+software)

<http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Sync>

[http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Math+Tools+software)

[+Notebook+Math+Tools+software](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software/SMART+Notebook+Math+Tools+software)

[http://exchange.smarttech.com/#tab=0http%3A%2F%2F](http://exchange.smarttech.com/)

Note: Recently,[*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education)released a [*Multi-Touch SMART Board*](http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1_SB8_1202010?tab=3) the

[885ix Interactive Whiteboard System](http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1_SB8_1202010?tab=3)!

[http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and](http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1_SB8_1202010?tab=3)

[%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1\_SB8\_1202010?tab=3](http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1_SB8_1202010?tab=3)<http://smarttech.com/us/Solutions/Education+Solutions>

Here is an information video describing the new amazing features of the

[885ix Interactive Whiteboard System](http://www.smarttech.com/Home%20Page/Solutions/Education%20Solutions/Products%20for%20education/Interactive%20whiteboards%20and%20displays/SMART%20Board%20interactive%20whiteboards/885ix%20for%20education?WT.ac=HPB1_SB8_1202010?tab=3):

[http://www.youtube.com/watch?v=ctb0-opsOQw&feature=youtu.be](http://smarttech.com/us/Solutions/Education+Solutions)

[*SMARTtech*](http://smarttech.com/us/Solutions/Education+Solutions) makes several other totally cool interactive hardware and software

[products](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education) that you might be interested in:

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software>

<http://smarttech.com/us/Solutions/Education+Solutions>

* [*SMART Slate*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Slate) *Wireless Slate*  <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Slate>
* [*SMART Response*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response)Interactive Response Systems <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response>
* [*SMART Table*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Table)Interactive Learning Center <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Table>
* [*SMART Document Camera*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Document+Camera) <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Document+Camera>
* [*SMART Audio*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Audio)Classroom Amplification System <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Audio>
* [*SMART Classroom Suite*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/new+SMART+Classroom+Suite+interactive+learning+software)Interactive Learning Software <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/new+SMART+Classroom+Suite+interactive+learning+software>
* [*SMART Sync*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/new+SMART+Classroom+Suite+interactive+learning+software)Classroom Management Software ([*Evaluation Version for Mac* just released](http://bit.ly/c4122b)) <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/new+SMART+Classroom+Suite+interactive+learning+software> <http://smarttech.com/us/Support/Browse+Support/Download+Software/Software/SMART+Sync+classroom+management+software/SMART+Sync+classroom+management+software/SMART+Sync+2010+Software+for+Mac>
* [*SMART Ideas*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Ideas+software)Concept Mapping Software <http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Ideas+software>

Note: Attention iPad users who also have [*SMART Response*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response)systems! Recently,

[*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions) released several new  *[SMART Response](http://smarttech.com/us/Resources/SMART+education+programs/Grants+and+fundraising)* devices ([*SMART Response PE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+PE),

[*SMART Response LE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+LE) *,* [*SMART Response XE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+XE), [*SMART Response CE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+CE), and [*SMART Response VE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE)) designed for various learning environments, including  the Beta for[*SMART Response VE*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE) . [*SMART Response VE*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE)is browser based and works with your existing [*SMART Response*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response)system and integrates with [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) software!

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response>

From the [*SMART Response VE*](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE)information web page:

[http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMAR](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE)

[+Response+VE](http://smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE)

*Students can respond to assessments using Internet-enabled devices, such as computers, iPhone, iPod Touch or iPad mobile digital devices, Blackberry Smartphone models, and phones on the Android mobile technology platform. To complete assessments, students simply log in to the* [*SMART Response VE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE) *browser-based product to receive and answer the questions you have created*.

<http://www.youtube.com/watch?v=8p6k8MuUBRQ>

Here is an information video about the new [*SMART Response*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response)systems, including 

[*SMART Response VE*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Complementary+hardware+products/SMART+Response/SMART+Response+VE) :

<http://www.youtube.com/watch?v=8p6k8MuUBRQ>

[*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions)offers awesome online live training events for all of their products at the

[*SMART Learning Center*](http://smarttech.com/us/Resources/Training/SMART+Learning+Center), many of which are free and they also offer [*SMART* on-site training](http://www.smarttech.com/us/Resources/Training/SMART+On+Site+Training+Programs).  [*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions) publishes [*EdCompass*](http://smarttech.com/us/Resources/SMART+Publications/EDCompass), a newsletter with all of the latest

product news, and tips and best practices for using the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards). You can

also subscribe to[*SupportLink*](http://www.smarttech.com/Home%20Page/Support/SupportLink)*,* a bi-monthly newsletter for support in using and

maintaining your [*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions) products. [*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions) also offers some great [webinars](http://smarttech.com/us/Resources/Webinars) focused on educational technology integration.  They also offer some [grant and funding resources](http://smarttech.com/us/Resources/SMART+education+programs/Grants+and+fundraising) for obtaining a [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)and related products from[*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions).

<http://www.smarttech.com/us/Solutions/Education+Solutions>

<http://smarttech.com/us/Resources/Training/SMART+Learning+Center>

[http://www.smarttech.com/us/Resources/Training/SMART+Learning+Space](http://www.smarttech.com/us/Solutions/Education+Solutions)

<http://www.smarttech.com/us/Resources/Training/SMART+On+Site+Training+Programs>

<http://smarttech.com/us/Resources/SMART+Publications/EDCompass>

<http://www.smarttech.com/Home%20Page/Support/SupportLink>

<http://smarttech.com/us/Resources/Webinars>

<http://smarttech.com/us/Resources/SMART+education+programs/Grants+and+fundraising>

Anne Irwin is the regional director (Indiana) for [*SmartEd*](http://www.teachsmart.org) services:

*Anne K. Irwin* *Regional Director*

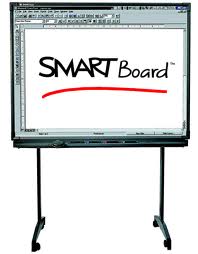
*SmartEd Services*

*260.224.3663*

*800.251.4077*

[*airwin@teachsmart.org*](http://www.airwin@teachsmart.org) *<http://www.teachsmart.org>*

So, why is the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)such such powerful learning tool?

•Interactivity and animations spell, “immediate student

engagement”.

•Facilitates vivid, clean, and focus friendly visuals.

•Music teachers can project “stuff” big for our large

groups.

•It’s intuitively friendly to the “digital natives”.

•The digital files that you create are “forever”, easily

accessed, and easily stored.

•The visualization tools in *SMART Notebook* software

enable “layered learning” and help teachers address

all learning styles simultaneously (visual, auditory,

kinesthetic learners). “A picture IS worth a thousand

words”.

Perhaps this student says it best . . .

<http://wsdtube.mciu.org/videos/21/what-is-a-smartboard?>

We [*Smart Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards) fanatics like to import all of the files for a lesson into a [*Smart Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)file so that students can finger click (on the board) the *Page Sorter* tab to navigate back and forth between several [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) lesson pages (which have been created with various applications and file formats, then, imported into [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) software) and use the totally cool [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) tools.

[http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)

[+whiteboards](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software>

[*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)software is P.C. user friendly and directly imports most of the

[*Microsoft Office*](http://office.microsoft.com/en-us) apps, as well as audio (as MP3 files), video (by link), and [*Flash*](http://www.adobe.com/flash) files.

[*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)files export as .notebook files, web pages, image files, or [PDF files](http://en.wikipedia.org/wiki/PDF).

<http://office.microsoft.com/en-us>

<http://www.adobe.com/products/flash>

<http://en.wikipedia.org/wiki/PDF>

Any [*Smart Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)file can also be recorded and exported as a [*screencast*](http://en.wikipedia.org/wiki/Screencasthttp://)(as a

[*Quicktime*](http://www.apple.com/quicktime)video file), so students can engage lessons and projects autonomously, in

groups when music class is in “workstation” format, or when you have a sub.

<http://en.wikipedia.org/wiki/Screencast>

<http://www.apple.com/quicktime>

There are LOTS of *Tabs* and *Tools* to use for creating, editing, navigating, and

presenting *Pages* in [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) software:

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software>



•*SMART Board Orient and Control Panel Tools*

•*SMART Notebook Tabs*

•*SMART Notebook Toolbar Tools*

•*Floating Tools*

•*Ink Aware Tools*

•*Gallery and Lesson Activity Toolkit Tools*

When you launch [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) a *Welcome Center* window for you to select the

function you want to use in the software will appear on top of a blank *Page* window.

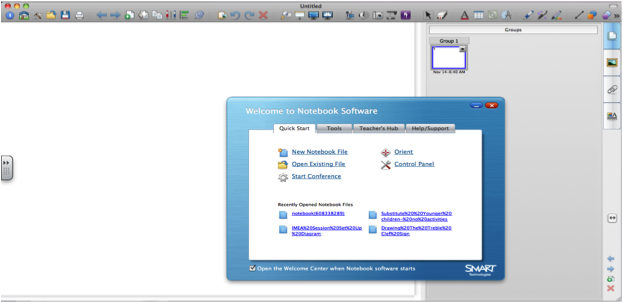
The [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Tools* will be located in the toolbar at the top, the *Tabs* window

at the right, and shortcut *Page* tools at the bottom right. A *Floating Tools* tab at the

bottom left will appear on your computer desktop when you install the software.

[http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

[%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

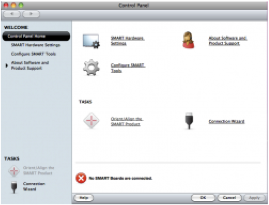


You use the *[SMART Notebook](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)* [*Control Panel*](http://onlinehelp.smarttech.com/english/mac/help/notebook/10_0_0/CPControlPanel.htm)to access and [customize](http://onlinehelp.smarttech.com/english/mac/help/notebook/10_0_0/CPControlPanel.htm) your

[*Smart Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)and [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)hardware and software settings (pen, eraser,

buttons, mouse settings, etc.) and to [orient the interactive screen](http://onlinehelp.smarttech.com/english/mac/help/notebook/10_0_0/CPOrientingScreen.htm).

<http://onlinehelp.smarttech.com/english/mac/help/notebook/10_0_0/CPControlPanel.htm>

To open the [*Control Panel*](http://onlinehelp.smarttech.com/english/mac/help/notebook/10_0_0/CPControlPanel.htm)press the *SMART Board Tools Icon*in your dock or toolbar, then, select “Open > Control Panel” in the menu bar.

In [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)you use a set of *Tabs* to create, edit, and navigate *Pages*.

[http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

[%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

**

•*Page Sorter* (*Add/Delete Pages, Grouping*)

•*Gallery* (*My Content, Gallery Essentials, Lesson Activity Toolkit*: *Pictures, Interactive and Multimedia,* [*Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Files and Pages, Backgrounds and Themes*)

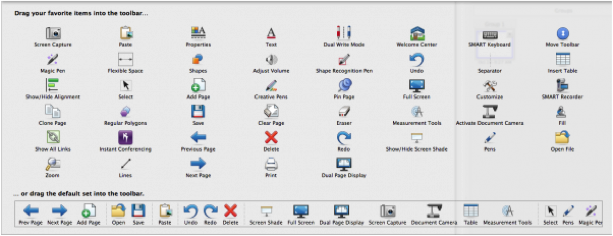
•*Attachments* (*Attach Documents and Other Files*)

•*Properties* (*Fill, Line, Colors, Page Recording, Animations*)

In [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)you also use a set of customizable *Tools* to create, edit, and navigate *Pages*.

[http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

[%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)



smartnotebooktransparentbackgrounmodeicon.pngThe [*Transparent Background Mode*](http://onlinehelp.smarttech.com/english/windows/help/notebook/10_0_0/NBTransparentBackgroundMode.htm) (so far, only available for P.C.) is a great new tool in [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)softwarewith which you can view your desktop and windows (web pages and applications) behind a [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Page* and interact with the open, transparent file. You can draw using digital ink on the

transparent *Page*, then, save your notes in the file, select and interact with the desktop and/or applications behind the [*Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)window, display measurement tools, and take *screen captures*.

<http://onlinehelp.smarttech.com/english/windows/help/notebook/10_0_0/NBTransparentBackgroundMode.htm>

There is also a set of [*Floating Tools*](http://onlinehelp.smarttech.com/english/windows/help/notebook/10_0_0/FTFloatingTools.htm) for creating, editing, navigating, and presenting *Pages* in [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)and when using the [*Smart Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards).

[*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)software also includes a set of *Ink Aware Tools* for you to insert and/or convert handwritten text, hand drawn objects, and *screen captures* into [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Pages* and [*Microsoft Office*](http://en.wikipedia.org/wiki/Microsoft_office) apps ([*Word*](http://www.office.microsoft.com/en-us/word), [*Excel*](http://www.office.microsoft.com/en-us/excel),[*PowerPoint*](http://www.office.microsoft.com/en-us/powerpoint)).

<http://www.google.com/search?q=SMART+Notebook+ink+aware+tools&ie=utf-8&oe=utf-8&aq=t&rls=org.mozilla:en-US:official&client=firefox-a>



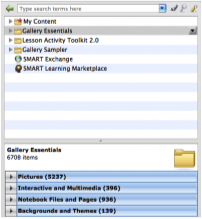
The most interactive tools for creating and editing [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)files are located in the *Gallery* and *Lesson Activity Toolkit*. It is here that you access *Pictures, Interactive and Multimedia Files,* [*Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Files and Pages,* and *Backgrounds and Themes* for creating [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *Pages*, access and save your own content in the *My Content* folder, and access the [*SMART Exchange*](http://exchange.smarttech.com/)web site to download teacher

created [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) files.

[http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART Notebook collaborative learning software&Training Type=Live Online&Audience=All audiences&Budget=All budgets](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

[http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)

[%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets](http://www.smarttech.com/us/Resources/Training/Training+Search?Products=SMART%20Notebook%20collaborative%20learning%20software&Training%20Type=Live%20Online&Audience=All%20audiences&Budget=All%20budgets)



Selected *Gallery* Files and Tools:

*Pictures*

* Musical Notes and Staff Pictures
* Instrument Pictures

*Interactive and Multimedia*

* Spinner
* Flash Bell set
* *Instruments of the Orchestra*
* *Musical Notes* with an interactive keyboard
* *Files and Pages*
* *Backgrounds and Themes*

Selected *Lesson Activity Toolkit* Files and Tools:

*Activities*

* *Vortex*

*Games*

* *Crossword*

*Graphics*

* *Icons*
* *Labels and Buttons*
* *Pull Tabs*

*Pages*

* *Lesson Pages*

*Tools*

* *Balloon Pop*
* *Click and Reveal Square*
* *Random Image Chooser*

You can access more information about the [*Smart Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards),instructions about taking

care of a [*Smart Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards),anddetailedinformation about using the [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)

*Tabs* and *Tool Sets* by referencing the [*SMARTtech*](http://www.smarttech.com/us/Solutions/Education+Solutions)[*User Guide*](http://www.smarttech.com/us/Support/Browse+Support/Product+Index/Software+Products/SMART+Notebook/Version+10+for+Mac): <http://www.google.com/search?q=SMART+Notebook+user+guides&ie=utf-8&oe=utf-8&aq=t&rls=org.mozilla:en-US:official&client=firefox-a>

<http://www.google.com/search?q=SMART+Notebook+user+guides&ie=utf-8&oe=utf-8&aq=t&rls=org.mozilla:en-US:official&client=firefox-a>

<http://www.google.com/search?q=SMART+Notebook+user+guides&ie=utf-8&oe=utf-8&aq=t&rls=org.mozilla:en-US:official&client=firefox-a>

[*SMART Notebook User Guide for Windows*](http://www.smarttech.com/us/Support/Browse+Support/Product+Index/Software+Products/SMART+Notebook/Version+10+for+Windows)

<http://www.smarttech.com/us/Support/Browse+Support/Product+Index/Software+Products/SMART+Notebook/Version+10+for+Windows>

[*SMART Notebook User Guide for Mac*](http://www.smarttech.com/us/Support/Browse+Support/Product+Index/Software+Products/SMART+Notebook/Version+10+for+Mac) <http://www.smarttech.com/us/Support/Browse+Support/Product+Index/Software+Products/SMART+Notebook/Version+10+for+Mac>

So far, the only music education related tools in the *Gallery* in[*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)

software are:

<http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software>

* Music Notes and Staff Picture Files
* Instrument Picture Files (some with sound)
* [*Flash*](http://en.wikipedia.org/wiki/Adobe_Flash) Bell Set
* [*Flash*](http://en.wikipedia.org/wiki/Adobe_Flash) *Instruments of the Orchestra* *Musical Notes* with Interactive Keyboard

[*Finale*](http://finalemusic.com/) and [*Sibelius*](http://www.sibelius.com/home/index_flash.html) files import as .tiff files into [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)software.

<http://finalemusic.com/default.aspx>

<http://www.sibelius.com/home/index_flash.html>

The best way to show you how the tools work in [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)software is

to demonstrate them in created [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) files. Examples for using:

* [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) and [*PowerPoint*](http://en.wikipedia.org/wiki/PowerPoint) files
* Digital Workstations
* CAI, Music Notation, and Music Sequencing Applications and Music Notation, Sequencing, and Learning Management System Cloud Apps
* Music Class Related Web Sites
* Storybooks, Primary Source, and Cultural Arts Web Sites
* Web 2.0/3.0 and Cloud Apps

with the[*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)for music class lessons, projects, and activities are posted at the [*Infusing Interactive Whiteboard and Other Visualization Tools in the Music Classroom*](http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visualization+Tools+in+the+Music+Classroom) page at the **MUSINGS WIKI [](http://www.musingswiki.wikispaces.com/Infusing+Interctive+Whiteboards+and+Other+Visualization+Tools+in+the+Music+Classroom).**

<http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visuaization+Tools+in+the+Music+Classroom>

Here are examples of how I use edited and created [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) and [*PowerPoint*](http://www.office.microsoft.com/en-us/powerpoint)files and *Digital* *Workstations* with the[*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)for music class lessons, projects, and activities.

Selected Edited and Created [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) *and* [*PowerPoint*](http://www.office.microsoft.com/en-us/powerpoint)Files:

* All Grade Levels  
    
  *Learn To Soar In Music Standards* (created the clouds using *Scratch* and *Animation* in *Properties Tab*)  
  [Learn to Soar in Music Standards.notebook](http://musingswiki.wikispaces.com/file/view/Learn+to+Soar+in+Music+Standards.notebook)
* Kindergarten  
    
  *The Wheels On The Bus* (edit of existing .notebook file, inserted audio files)  
  [The Wheels on The Bus.notebook](http://musingswiki.wikispaces.com/file/view/The+Wheels+on+The+Bus.notebook)
* Grade 1  
    
  *Drawing The Treble Clef Sign* (freehand drawing, students use pen tools, great file for using *Page Recording*)  
  [Drawing The Treble Clef Sign.notebook](http://musingswiki.wikispaces.com/file/view/Drawing+The+Treble+Clef+Sign.notebook)  
    
  *Rain, Rain, Go Away* (edit of existing .notebook file, Orff xylophone uses *Animation* in *Properties Tab*)

[Rain, Rain Go Away on Sol, Mi, and La.notebook](http://musingswiki.wikispaces.com/file/view/Rain,+Rain+Go+Away+on+Sol,+Mi,+and+La.notebook)

* Grade 2  
    
  *Surprise Symphony* (edit of existing .notebook file, uses *Erase Reveal*)  
  [Surprise Symphony Revised-1.notebook](http://musingswiki.wikispaces.com/file/view/Surprise+Symphony+Revised-1.notebook)
* Grade 3  
    
  *Chan Mali Chan* (simple graphics file)  
  [Chan Mali Chan.notebook](http://musingswiki.wikispaces.com/file/view/Chan+Mali+Chan.notebook)

Selected Digital Workstation Files:

* Grades 3-5  
    
   *Johann Sebastian Bach Composer facebook Workstation*:  
   [Johann Sebastian Bach Composer facebook.notebook](http://musingswiki.wikispaces.com/file/view/Johann+Sebastian+Bach+Composer+facebook.notebook)

*Treble Clef Note Names Workstation* (edit of several existing *.notebook* files, uses *Click and Reveal Square* and *Random Image Chooser* from the *Lesson Activity Toolkit*

[Treble Clef Note Names White Background.notebook](http://musingswiki.wikispaces.com/file/view/Treble+Clef+Note+Names+White+Background.notebook)

* Grades 2-8

*Musical Math Workstation Grades 4 and 5* (used *Flash* files from *Lesson*

*Activity Toolkit* and *Infinite Cloner,* includes video demo)

[Musical Math Workstation Grades 4 and 5.notebook](http://musingswiki.wikispaces.com/file/view/Musical+Math+Workstation+Grades+4+and+5.notebook)

*Star-Spangled Banner Jeopardy PowerPoint Workstation* (edited to use with *Star-Spangled Banner* project, *PowerPoint* animation, includes):[Star Spangled Banner Jeopardy Revised.ppt](http://musingswiki.wikispaces.com/file/view/Star+Spangled+Banner+Jeopardy+Revised.ppt)

Now, here are examples of using music CAI (Computer Assisted Instruction),

notation, and sequencing applications including music notation, sequencing, and learning management system cloud apps with the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)for music class lessons, projects, and activities:

Selected Music CAI, Notation, and Sequencing Applications:

Music CAI

* [*Music Ace*](http://www.harmonicvision.com): *CAI* Lessons

<http://www.harmonicvision.com>

Music Notation

* [*Finale*](http://www.finalemusic.com): Music *Composition Templates, Recorder Scores, Orff Ensemble Scores*

<http://www.finalemusic.com>

Music Sequencing

* [*Groovy Music*](http://www.sibelius.com/products/groovy/index.html): Music Sequencing Projects

<http://www.sibelius.com/products/groovy/index.html>

* [*GarageBand*](http://www.apple.com/ilife/garageband): Music Sequencing Projects

<http://www.apple.com/ilife/garageband>

* [*Band-In-A-Box*](http://www.pgmusic.com): Music Sequencing Projects

<http://www.pgmusic.com>

Music Notation Cloud Applications

* [*Noteflight*](http://www.noteflight.com/login)

<http://www.noteflight.com/login>

Music Sequencing Cloud Applications

* [*Aviary Myna*](http://www.aviary.com)

<http://www.aviary.com>

* [*Audacity*](http://www.audacity.sourceforge.net)

<http://audacity.sourceforge.net>

* [*JamStudio*](http://www.jamstudio.com/Studio/index.htm)

<http://www.jamstudio.com/Studio/index.htm>

* [*MmmTsss*](http://web.mit.edu/~eric_r/Public/mmmtss)

<http://web.mit.edu/~eric_r/Public/mmmtsss>

* [*Shaun The Sheep Bleatbox*](http://www.shaunthesheep.com/games/bleatbox)

<http://www.shaunthesheep.com/games/bleatbox>

Music LMS (Learning Management System) Cloud Applications

* [*Haiku*](https://www.myhaikuclass.com/do/account/login?src=2Fdo/dashboard)

<https://www.myhaikuclass.com/do/account/login?src=%2Fdo%2Fdashboard>

And here are some examples of using music class related web sites with the

[*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)for music class lessons, projects, and activities:

Selected Music Class Related Web Sites:

* [*DSO Kids*](http://www.dsokids.com/2001/rooms/DSO_Intro.html)

<http://www.dsokids.com/2001/rooms/DSO_Intro.html>

* [*Creating Music*](http://www.creatingmusic.com)

<http://www.creatingmusic.com>

* [*Music Theory.net*](http://www.musictheory.net)

<http://www.musictheory.net>

* [*The Music Interactive*](http://www.themusicinteractive.com/TMI/The_Music_Interactive%20-%20Welcome.html)

<http://www.themusicinteractive.com/TMI/The_Music_Interactive_-Welcome.html>

* [*Interactive Recorder Fingering Chart*](http://www.musick8.com/rkdojo/rkchart.php)

<http://www.musick8.com/rkdojo/rkchart.php>

* [*Counting Music*](http://www.philtulga.com/counter.html)at [*Phil Tulga.com*](http://www.philtulga.com)

<http://www.philtulga.com/counter.html>

Here are examples of using storybook, primary source, and cultural arts web sites

with the [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)for music class lessons, projects, and activities:

Selected Storybook, Primary Source, and Cultural Arts Web Sites:

Storybooks

* [*Speak-A-Boos*](http://www.speakaboos.com)

<http://www.speakaboos.com>

* *Simple Gifts* Project

[http://www.amazon.com/Simple-Gifts-Shaker-Chris Raschka/dp/0805051430](http://www.amazon.com/Simple-Gifts-Shaker-Chris%20Raschka/dp/0805051430)

Primary Source Web Sites

* [*The Star-Spangled Banner*](http://americanhistory.si.edu/starspangledbanner) at the [*Smithsonian*](http://www.si.edu)[*National Museum of American History*](http://americsanhistory.si.edu)

<http://americanhistory.si.edu/starspangledbanner>

Related Arts and Cultural Arts Web Sites

* *Playing With Shadows* at [*ArtsEdge*](http://artsedge.kennedy-center.org)

http://artsedge.kennedy- center.org/interactives/shadowpuppets/artsedge.htmlhttp://www.mnh.si.e du/africanvoices/mudcloth/index\_upgrade.html

* [*Smithsonian Museum of Natural History’s*](http://www.mnh.edu)[*African Voices*](http://www.mnh.si.edu/africanvoices/mudcloth/index_upgrade.html)

<http://www.mnh.si.edu/africanvoices/mudcloth/index_upgrade.html>

* *Simple Gifts* Project

<http://www.pbs.org/kenburns/shakers>

<http://www.smithsonianmag.si.edu/journeys/01/apr01/music.html>

<http://www.hancockshakervillage.org>

And, here are some examples of how I use Web 2.0/3.0 and Cloud Apps with the

[*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards):

Selected Web 2.0/3.0 and Cloud Apps:

* [*Wallwisher*](http://www.wallwisher.com):[*The Haley Comets Music Sticky Note Wall*](http://www.wallwisher.com/wall/musicbloggers)

<http://www.wallwisher.com/wall/musicbloggers>

* [*Wordle*](http://www.wordle.net)

<http://www.wordle.net>

* [*Storybird*](http://www.storybird.com)

<http://storybird.com>

* [*Glogster Edu*](http://www.edu.glogster.com)

<http://edu.glogster.com>

* [*Voicethread*](http://www.voicethread.com)

<http://www.voicethread.com>

* [*Blabberize*](http://www.blabberize.com)

<http://blabberize.com>

 “Teachers Love *SMART Boards*” and there are tons of awesome resource web sites for [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)fanatics like me. Here are some good ones:

* [*SMART Exchange*http://exchange.smarttech.com/](http://exchange.smarttech.com/)

[http://exchange.smarttech.com/#tab=0](http://exchange.smarttech.com/)

* [*TeachSmart*](http://www.teachsmart.org)

<http://www.teachsmart.org>

* [*Engaging Learners the SMARTBoard Way*](http://eduscapes.com/sessions/smartboard%20%20http://)at[*Eduscapes*](http://eduscapes.com)

[Smartboard in the Classroom](http://eduscapes.com/sessions/smartboard/)

* [*SMART Board Revolution Ning*](http://smartboardrevolution.ning.com)

<http://smartboardrevolution.ning.com>

* [*The Whiteboard Blog*http://www.whiteboardblog.co.uk](http://www.whiteboardblog.co.uk)

<http://www.whiteboardblog.co.uk>

* [*The Smart Board Daily*](http://paper.li/tag/smartboard)

<http://paper.li/tag/smartboard>

* [*Teachers Love Smart Boards*](http://www.teacherslovesmartboards.com)

<http://www.teacherslovesmartboards.com>

* [*SMART Teachers Wiki*](http://smart-teachers.wikispaces.com)

<http://smart-teachers.wikispaces.com>

* [*Interactive Whiteboards*](http://www.cybraryman.com/smartboard.html)at[*Cybraryman*](http://www.cybraryman.com/0_teachers1.htm)

<http://www.cybraryman.com/smartboard.html>

* [*SMART Board*](http://smartboardgoodies.com) [*Goodies*](http://smartboardgoodies.comhttp://)

<http://www.smartboardgoodies.com>

Music teachers also love [*SMART Boards*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)and here are some good music related [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software) files web sites:

* [*MusTech Wiki*](http://mustech.pbwiki.com)

<http://mustech.pbwiki.com>

* [*Mrs. Friedman’s SMART Board Resources*](http://resources.mrsfriedmanmusic.com)

<http://resources.mrsfriedmanmusic.com>

* [*Copacabana Public School’s Get SMART Music SMART Board Resources*](http://www.copacabana-p.schools.nsw.edu.au/Get_Smart_Pages/Get_Smart_Music.htm)

<http://www.copacabana-p.schools.nsw.edu.au/Get_Smart_Pages/Get_Smart_Music.htm>

* [*Center School District’s Special Classes Templates*](http://www1.center.k12.mo.us/edTech/SB/templates.htm)

<http://www1.center.k12.mo.us/edTech/SB/templates.htm>

* [*SMART Board Lesson Links*](http://faculty.usiouxfalls.edu/arpeterson/SMARTBOARD%20LESSON%20LINKS.htm) (scroll to bottom for music files)

<http://faculty.usiouxfalls.edu/arpeterson/SMARTBOARD%20LESSON%20LINKS.htm>

* [*SMART Board Tips*](http://smartboardtips.wikispaces.com/Music)

<http://smartboardtips.wikispaces.com/Music>

* [*Infusing Interactive Whiteboards and Other Visualization Tools in the Music Classroom*](http://musingswiki.wikispaces.com/infusing+Interactive+Whiteboards+and+Other+Visualization+Tools+in+the+Music+Classroom) page at the [*MUSINGS Wiki*](http://musingswiki.wikispaces.com)

[http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visuali zation+Tools+in+the+Music+Classroom](http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visuali%09zation+Tools+in+the+Music+Classroom)

Although the [*SMARTtech Training Center*](http://smarttech.com/Home%20Page/Resources/Training) is the best place to go for [*SMART Board*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Interactive+whiteboards+and+displays/SMART+Board+interactive+whiteboards)

and [*SMART Notebook*](http://www.smarttech.com/us/Solutions/Education+Solutions/Products+for+education/Software/SMART+Notebook+collaborative+learning+software)related training, here are some other good training web

sites:

* [*SMART Board* Instruction Videos at YouTube](http://www.youtube.com/results?search_query=SMART+board&aq=f)

<http://www.youtube.com/results?search_query=SMART+board&aq=f>

* [*Teaching With SMARTBoards*](http://cinyi.th8.us)

<http://cinyi.th8.us>

* [*SMART Bees*](http://www.protopage.com/smartbees)

[http://www.protopage.com/smartbees#SmartBees/Resources](http://www.protopage.com/smartbees)

* *Jumping Into The World of Interactive Whiteboards*

<https://docs.google.com/Doc?id=dgrrj32k_396dj2zqpcq&hl=en>

* [*Pendergast Elementary School District*](http://www.pesd92.org/educationalservices/pupilservices/psonlinetraining/smartboard/smartboard.html) <http://www.pesd92.org/educationalservices/pupilservices/psonlinetraining/smartboard/smartboard.html>
* *Andy Ramos* [*SMART Board Basics Class*](http://mustech.pbworks.com)

<http://mustech.pbworks.com>

* [*SMART Basics*](http://smart-teachers.wikispaces.com/-+SMART+Basics+-) Tab at [*SMART Teachers*](http://smart-teachers.wikispaces.com)

<http://smart-teachers.wikispaces.com/-+SMART+Basics+->

* *Amy Burns* [*SMART Board Sessions*](http://www.amymburns.com)

<http://www.amymburns.com>

There are other brands of [interactive whiteboards](http://en.wikipedia.org/wiki/Interactive_whiteboard) ([IWB’s](http://en.wikipedia.org/wiki/Interactive_whiteboard)) . . .

* [*Promethean Board, Activeinspire*](http://www.prometheanplanet.com/en)software*, and* [*Promethean Planet*](http://www.prometheanplanet.com/en)

<http://www.prometheanplanet.com/en>

<http://www.prometheanworld.com/server.php?show=nav.16874>

* [*Mimio Products*](http://www.mimio.dymo.com/index.asp?) and [*Mimio Connect*](http://www.mimeoconnect.com)

<http://www.mimio.dymo.com/index.asp>?

<http://www.mimeoconnect.com>

Chad Criswell offers some tips on [*Buying an Interactive Whiteboard*](http://www.musicedmagic.com/computers/how-to-buy-an-interactive-whiteboard) at his web site

[*MusicEd Magic.com*](http://musicedmagic.com).

<http://www.musicedmagic.com/computers/how-to-buy-an-interactive-whiteboard>

There are also virtual interactive whiteboards like:

* [*Dabbleboard*](http://dabbleboard.com)

<http://dabbleboard.com>

And then, there’s the [*Wiimote whiteboard*](http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html):

<http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html>

The [*Wiimote whiteboard*](http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html) works with [infrared technology](http://en.wikipedia.org/wiki/Wii_Remote) . . . And you can make

one with a [*Wiimote*](http://en.wikipedia.org/wiki/Wii_Remote) or inexpensively with the following easily obtained, and

cheap tools:

<http://en.wikipedia.org/wiki/Wii_Remote>

<http://irpensonline.com>

<http://en.wikipedia.org/wiki/Bluetooth>

<http://www.instructables.com/id/Wiimote-Whiteboard-Set-up>

<http://johnnylee.net/projects/wii>

<http://www.smoothboard.net>

* Any White Surface
* An [Infrared Pen](http://irpensonline.com) (easily [purchased](http://irpensonline.com) if you don’t want to [make one](http://johnnylee.net/projects/wii))
* A [Bluetooth](http://en.wikipedia.org/wiki/Bluetooth) Configured Computer: Info about this: <http://www.instructables.com/id/Wiimote-Whiteboard-Set-up>
* [Software](http://johnnylee.net/projects/wii) ([download from Johnny Lee’s web site](http://johnnylee.net/projects/wii) or purchase: [*Smoothboard*](http://www.smoothboard.net))

The software enables you to use an [infrared pen](http://irpensonline.com) the same as a mouse with a

projected image on any white surface. Here are some web sites with more information [obtaining materials for](http://johnnylee.net/projects/wii), [making](http://johnnylee.net/projects/wii), [setting up](http://www.boonjin.com/smoothboard/index.php?title=Main_Page), and using a[*Wiimote whiteboard*](http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html):

* <http://johnnylee.net/projects/wii>
* <http://www.boonjin.com/smoothboard/index.php?title=Main_Page>
* [http://www.smoothboard.net](http://www.smoothboard.net/)
* <http://www.alltogetherwecan.com/2009/01/31/wiimote-whiteboard-in-ducation-a-tutorial>
* <http://www.instructables.com/id/Wiimote-Whiteboard-Set-up>
* <http://mkeadle.org/wiiboard>

Note: A new drawing tablet called the [*uDraw*](http://www.gamefocus.ca/news/11406) is now available. It has a holder on the

left side for a standard [*Wiimote*](http://en.wikipedia.org/wiki/Wii_Remote) (from the [*Nintendo Wii*](http://www.nintendo.com/wii) video game system) and is

intended to be used by three different video games (including [*Pictionary*](http://wii.gwn.com/games/gameinfo.php/id/14371/platform/nes/title/Pictionary_The_Game_of_Video_Quick_Draw.html)). Most

probably [Johnny Chung Lee](http://johnnylee.net/projects/wii/) and other [*Wiimote whiteboard*](http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html)champions will modify it’s use for the classroom soon after it’s release.

<http://www.gamefocus.ca/news/11406>

<http://www.nintendo.com/wii>

<http://wii.gwn.com/games/gameinfo.php/id/14371/platform/nes/title/Pictionary_The_Game_of_Video_Quick_Draw.html>

<http://johnnylee.net/projects/wii>

<http://www.ted.com/talks/lang/eng/johnny_lee_demos_wii_remote_hacks.html>

You can read more about this device in Chad Criswell’s article entitled,

[*New Wii Accessory May Spell Big News for WiiMote Whiteboard Fans*](http://www.musicedmagic.com/tales-from-the-podium/new-wii-accessory-may-spell-big-news-for-wiimote-whiteboard-fans.html) at:

[*MusicEd Magic.com*](http://musicedmagic.com/).

<http://www.musicedmagic.com/tales-from-the-podium/new-wii-accessory-may-spell-big-news-for-wiimote-whiteboard-fans.html>

Here is an information video about the [*uDraw*](http://www.worldofudraw.com/):

<http://www.youtube.com/watch?v=P2oPhGiRhGU&feature=player_embedded>

Another digital visualization tool that I use in my music classroom learning

environment is a [document camera](http://en.wikipedia.org/wiki/Document_camera). The brand name of the ones my school system

uses is [*AverVision*](http://www.avermedia-usa.com) but there are other high quality brands of document cameras and

digital visual presenters such as those made by [*Elmo*](http://www.elmousa.com/digital-visual-presenters.php).  Along with an [LCD projector](http://en.wikipedia.org/wiki/LCD_projector)

([*InFocus*](http://www.infocus.com), [*Panasonic*](http://www.panasonic.com/business/projectors/home.asphttp://), [*Mitsubishi*](http://www.mitsubishi-presentations.com), [*Dell*](http://www.dell.com/projectors), etc.), the document camera projects real time

images like:

[http://en.wikipedia.org/wiki/Document\_camera](http://www.avermedia-usa.com)

[http://en.wikipedia.org/wiki/LCD\_projector](http://www.avermedia-usa.com)

<http://www.avermedia-usa.com>

<http://www.elmousa.com>

<http://www.infocus.com>

<http://www.panasonic.com/business/projectors/home.asp>

<http://www.mitsubishi-presentations.com>

<http://www.dell.com/projectors>

* Music Textbook Pages
* Music Octavos
* Other Music Class Related Documents
* Real Life Music Class Related Objects

A great list of resources related to the document camera can be found at:

<http://cybraryman.com/documentcameras.html>.

You can access all of the session resources at the *Infusing Interactive Whiteboards and Other Visualization Tools in the Music Classroom* page at the **MUSINGS WIKI,**

[Musings Wiki Logo.jpg](http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visuali%09zation+Tools+in+the+Music+Classroom).

<http://musingswiki.wikispaces.com/Infusing+Interactive+Whiteboards+and+Other+Visuaization+Tools+in+the+Music+Classroom>

***Upcoming Presentations:***

Don’t miss an upcoming session, *Digital Workstations: 21st Century Learning*

*Tools for the Music Classroom***,** at the *2011 IMEA Convention*, January 21, in

Room Jefferson B, at the Grand Wayne Center, here in Fort Wayne.

<http://bloomsinger.wordpress.com/presentations>

<http://www.imeamusic.org/convention>